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Handbook of INDUSTRIAL SURFACTANTS

An International Guide to More Than 16,000 Products by Tradename, Application, Composition & Manufacturer

Compiled by
Michael and Irene Ash

Gower

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Printed and bound in Great Britain by Harmolls Limited, Bodmin, Cornwall foam 15 mm (0.1% sq., initial); toxicology; severe eye irritant; LD50 (orsi, rat) 1.98 g/kg; 100% act.

Igenal CO-619. (Rhone-Poulenc Surf.; Rhone-Poulenc France) Nonoxynol-8 (7-8 EO); CAS 9016-45-9; nonionic; low fearning datergant, wetting agent, amulaifier, ludricant; for metalworking; biodeg.; FDA compliance; pale yel, liq., aromatic odor; sol, in raphina, xylene, busyl Cellosolve, perchierocthylene, schanol, water; sp.g. 1.05; visc. 230-290 cps; HLB 12.2; cloud pt. 72-82 F (1%); flash pt. > 200 F (PMCC); pour pt. 37 ± 2 F; aut. tens. 30 dyses/em (0.0%); Ross-Miles foam 55 mm (0.1% aq., initial); 100% act.

Igepaté CO-620 (Rhone-Paulene Surf.) Nonaxynol8 (8.5 EO); CAS 9016-45-9; nonionie; detergent, wetting agent, emulsifier; surfactant used in heavyduy liq, detergent compds.; blodog.; FDA compilsucc; pale yel, liq, aromatic door; sol, in water,
kytone, dibutyl phthalate, perchlomethylene, ethanol, ethylene glycol; sp.gr. 1.05; visc. 180-280 eps;
solid, ot. 3: F; HLB 12.6; pour pt. 36 F; cloud pt.
104-115 F(1% aq.); flash pt. (PMCC) > 200 F; surf.
tans. 32 dynestem (CO1%); Ross-Milles form 69
mm (O.1% aq., initial); 100% cune. DISCONTIN-

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Igepais CO-639. (Raone-Poulous Surf.: Rhone-Poulous France) Numeryand-9: CAS 9016-45-9; nonlinitis distorpost, weiting and reweiting agent, corrosion inhibition, penetrant, constitution, dispersant for textile, paper, leather, household/industrial cleaners, agric., paints, metal processing, amulaion cleaning; biodeg.; FDA. EPA compliance; almost coloriestria, aromatic odor; sol, in naphtha, xylene, buty! Cellosofive, perchlorocthylene, chanol, water; pp.gr. 1.06; viza. 225-300 cps; HLB 13.0; cloud pt. 126-133 F (1%); flash pt. > 200 F (PMCC); pour pt. 31 ± 2 F; surf. tans. 31 dynesism (0.01%); Ross-Miles foams 80 mm (0.1% sq., initial); toxicology; severne evel irritant; LDS (oral, ps.) 5 g/fc; 100% act.

severce ye irritant; LD50 (oral, rat) 3 g/kg; 100% set. Igepat@ CO-660. [Rhose-Poulene Surf.; Rhone-Poulene Praces] Nonexynol-10; CAS 9016-45-9; sonionic; detergent, weiting and reweating agent, convoloninhibitar, penetrant, emultifier for textille, paper, leather, householdindustrial cleanurs, agric., paints, matal processing, convision cleaning; biodeg.; FDA, EPA compliance; pale yel. liq., aromatic odor; sel. in apphtha, xyiene, butyl Cellusolve, perchlomothylens, ethanol, water; ep.gr. 1.06; visc. 222-275 opt; HLB 13.2; cloud pt. 140-149 F (1%); flash pt. > 200 F (PMCC); pour gs. 45 2 2 F; surf. tens. 31 dynasiem (0.01%); Ross-Miles form \$2 mm (0.1% aq., initial); 100% ec.

Igepaid CO-710. [Rhone-Poulenc Surf.: Rhone-Poulenc France] Nonoxynol-10.5; CAS-9016-45-9; nonioner; detergent, wetting and rewatting agent, corrosion inhibitor, penetrant, emulatine for textile, paper, leather, household/adustrial cleaners, agric, paints, metal processing, emulsion cleaning; biodeg.; FDA, EPA compliance; paie yel, liq., aromatic odor; sol. in naphtha, xylene, butyl Celloanive, perchlorocthylene, ethanol, water; sp.gr. 1.06; vinc. 240-300 (eps. HLB 13.6; cloud pt. 158-165 F (1%); flash pt. > 200 F (PMCC); pour pt. 49 ± 2 F; surf. tens. 32 dynesiem (0.01%); flash Miles foam 110 mm (0.1% sq., initial); 100% act.

Igepath CO-720. [Rhone-Poulene Surf.; Rhone-Poulene France] Nonoxymol-12; CAS 9016-45-9; nonionic; detergent, westing and rewesting agent, corrosion inhibitor, penetrant, emultifier, dispersant for textile, paper, leather, household/industrial cicaners, agrice, prints, metal processing, consistent cleaning; biodese; FDA, EPA compliance; epaque liq., aromatic oder, sol. in naphtha, xylone, busyl collosolve, perchloroethylene, ethanel, water, ap.gr. 1.06; visc. 260-340 opt; HLB 14.2; flash pt., 200 F (PMCC); pour pt. 62 ± 2 F; surf. tons. 34 dynes/cm (0.01%); Rosé-Miles feam 110 mm (0.1%, aq., initially exicology; severe eve irritant; LD30 opt; and any 1.15 sages 100% agr.

aq., initial): toxicology: severe eye initiant; LD50 (oral, rat) > 1.5 g/kg; 100% set.

Igepai@ CO-730. [Rhone-Poulene Surf.; Rhone-Poulene France] Nonoxynol-15; CAS 9016-45-9; nonionic; detergent, dispersant, wetting agent, penersant, emulaities for industrial cleaners, metal-working fluids, agric formulation; effective athigh temps, and inhigh electrolyte media; blodeg.; FDA, EPA compliance; yet. Hz., srematic odor; sol. in naphtha, xylene, butyl Collacolve, perchloroethylene, ethanol, water, sp.gr., 1,07; vike. 450-550 4pg, HLB 15.0; cloud pt. 203-212 F (1%); flash pt. > 200 F (PMCC); post-pt. 71 ±2 F; surf. tons. 36 dynes/em (0,01%); Ross-Miles form 130 mm (0.1% sq., ini-

tial); toxicology; moderate eye înfant; LD50 (oral,

rat) 2.5 g/kg; 100% uct.
Igep=i@CO-738. (Rhone-Foutene Surf.) Nonoxynot15; CAS 9016-45-9; nonionic; determent, dispersant, woning agent, penetrant, emulsifier for industrial cleaners; itq.; HLB 15.0; 80% act. DISCON.

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Igepsi® CO-SSS. (Rhone-Poulenc Sunt.: Rhone-Poulenc France) Nonoxynol-ZD; CAS 9016-45-9; nunionic; detergent, weiting agent, dispersant, emulsifier, for industrial cleaners, metalworking fluids, polyester rains; latex stabilizer, demulsifier for crude petrol, oil emulsions; glass moid release agent; FDA compliance; pole yel, wax; aromatic odor; sof, in naphtha, xylene, butyl Cellosolve, perchlomedsylene, ethanol, water; sp.gr. 1,08 (50 C); HLB 16.0; doad gr. > 212 F (1% aq.); flush pt. > 202 F (PMCC); pour pt. 91 ± 2 F; sunf. tens. 39 dynesiem (0.01%); Ross-Miles fram 120 mm (0.1% aq., initial); 100% ac.

Igepaid CO-880. [Rhene-Poulenc Surf.; Rhene-Poulenc Frace] Nanoxynol-30; CAS 9016-45-9; nonionic; detergent, wetting agent, dispersant, emulsifier, for industrial cleaners, polyector resin, agric; latex stabilizer; demulsifier for crude potrol. oil emulsions; also textile scowing, solubilizer; FDA, EPA compliance; pale yel, wax; aromatic odor; sol, is sapiths, xylend, butyl Cellosolva, pechiomethylene, othanol, water; sp.gr. 1.08 (50 C); HLB 17-2; cloud pt. > 212 F (1% aq.); flash pt. > 200 F (PMCC); pour pt. 109 z 2 F; surf. tens. 43 dynes cm (0.01%); Ross-Miles fourn 120 mm (0.1% aq., initial); texticology; minimal eye irritant; LD50 (2015); and the fact 100% ag.

(orsi, rat) > 16 g/kg; 100% act.

Igepal® CO-887. [Rhone-Poulenc Surf.: Rhone-Poulenc France] Nonoxynsi-30; CAS 9016-45-9: nonlonic; detergent, wasting agent, dispersion, container, for industrial cleaners, polyester resins; latex stabilizer; demulsifier for crude peute, oil emulsions; sise textile scouring, solubilizer; FDA EPA compliance; pale yet, liq.; ammatiooder; ap. 3: 1.09; solid, pt. 28 F; HLB 17.2; cloud pt. clear at 2:2 F (1% aq.); flash pt. > 200 F (PMCC); pour pt. 34 flash pt. > 200 F (PMCC); pt. 200 Flash pt. > 200 F (PMCC); pt. 200 Flash pt. > 200 F (PMCC); pt. 200 Flash pt. > 200 Flash pt. > 200 Flash pt. > 200 Flash

2 F; 70% act

Igepsigo CO-898. (Risone-Poulone Surf.) Nonoxyash-40; CAE 9016-45-9; nonionic; emulsifier, stabilizer, wenting agent, dyaing assistant for plastick agric, latexes, floor polishes, etc.; FDA, EPA compliance; off-wh. wax; aromatic odor; sol, in ethanel. Tradenames: Abiuaci NP6; Aikasuri® NP-6; Aikopai N060; Cartonon® N-6; Codepai CO-530; Chemax NP-6; Dahydrophen PNP 4; Dahydrophan PNP 6; Desnic® 6N; Emihox® 6962; Emulgator U6; Ethal NP-6; Ethylan@77; Etophen 106; Hotoxida NP-6; Hostapal N-060 Hostapal N-060R; Hyonic NP-60; Iconol NP-6; Igepuldi CO-530; Macold NP-6; Makond 6; Marlophendi 86N; Marlophendi 86N/S; Naxopic NI-60; Nissun Nonion NS-205; Norfox® NP-6; NP-55-60; Poly-Tergent® B-200; Polystep® P-2; Prox-anic NP-66; Remapul 666; Renex& 697; Rewopul& HV 6; Rexal 25:6; Sellig N 6 100; Serdox NNP 6; Siponic NP 6 (see Igepal@CO-530); Surfonic@N-60; Syngaronic NPG; Syntopon A; T-Det & N-6; Tergitol & NP-6; Trycol@ 6962; Trycol@ NP-6

Nonoxynol-7 (CTFA) CAS 9016-45-9 (generic); 25027-38-3 (generic); 27177-05-5; 37205-87-1 (generic); EINECS 248-292-0

Synonymu: PEG-7 nonyl phonyl ether, POE (7)

nonyi phenyi ether

Tradenament described 7N; Eusphen 187; Iconol NP-7; Makons 7; Martophens 87N; Norfors NP-7; Rexol 25/7; Serdox NNF 7; Symportain NP-7; Targisol® NP-7; Tergitol® NP-27; Trycol® 6963; Trycol® NP-7

Nonexynot-S (CTFA)

CAS 9016-45-9 (generic); 26027-34-3 (generic); 37205-87-1 (generic); 26571-11-9; 27177-05-5; EINECS 248-293-6; 247-816-5

Synonyms: PEG-8 nonyl phenyl ether, POE (8) nonyl phenyl other, PEG 400 nonyl phonyl ether Tradenames: Ablunoi NPS; Alkasuri NP-S; Arkopai N080; Camenon® N-8; Cescpai CO-610: Dehydrophes PNP 8; Ethyland TU: Esophen 108; Houseal N-080; Igenal@ CO. 510; Matol® NP-8; Makon® 8; Matiophen® 88N; Nikkol NP-7.5; NP-53-80; NP-53-85; Nutral 611; Polystep & F-3; Quimipol ENF 80; Remcopal 349; Ranax & 688; Remopal W HV 8; Rexol 25/8; Sellig N E 100; Serdox NNP E.S. Siponic® NP-8 (see Alkasuri® NP-8); Surfenic® N-85; Symperonic NP8; Sympeon B; T-Deley N-S; Tergital NP-S; Teric NS

Tradenames containing: Surforce HDL

Nonoxynol-9 (CTFA)

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CAS 9016-45-9 (generic); 26027-38-3 (generic); 26571-11-9; 37205-87-1 (generic); 14409-72-4

2371-11-7; 3/20-87-1 (general); 14409-72-4
23809391: PEG-9 sonyl phonyl ether; POE (9)
200yl phonyl other; PEG-450nonyl phonyl ether
Trodenames: Ablunol NP9; Atyporax NP 90;
Alkasurf®NP-9; Arkopal N090; Caloxylate N9; Carsonon® N-9; Cedepal CO-630; Chomax
NP-9; Desonic® NP, Emplian® NP9; Emulgator U9; Ethal NP-9; Ethylan@BCP; Ethylan@ KEO; Etophen 109; Gradonic N-95; Hetoxide NP-9; Hescapsi N-090; Hyonic NP-90; Iconoi NP-9; Igopai® CO-630; Igopai® FN-9.5 (for-merty Texafor FN-9.5); Macoi® NP-9.5; Marlophen® 89N; Marlophen® 1028N; Notiox® NP-9; NP-55-90; Nutrol 600; Poly-Tergenco B-300; Prox-onic NP-09; Remcopal 19; Kemcopsi 6110; Renex® 698; Rowspal® HV9; Rexel 25/9; Sollig N9 100; Siponic & MP-9 (see Igepal@ CO-630); Siponic@ NP-9.5 (see lgepal® CO-630); Syn Fac® 905; Synperonic NP9; Syntopon C; Tergital& NP-9; Tergital&

TP-9; Teric N9; Triton DN-101; Trycol \$ 5964; Trycold NF-9

Tradenames containing: Mackanate DOS-70W

Nonuxyani-10 (CTFA) CAS 9016-45-9 (generic); 26027-38-3 (generic); 27177-08-8; 37205-87-1 (generic); 27942-26-3; EINECS 248-294-1

Synonyma: PEG-10 nony! phenyl ether, POE (10) conyl phenyl ether, PEG 500 soulyl phenyl ether Tradenamer: Ablumol NP10; Akyporos NP 95; Akyporos NP 105; Alkasuri@ NP 10; Arkopa; N100; Carsonon® N-10; Cedepai CO-710; Chemax NP-10; Dohydrophen PNP 10; Desonic® 10N; Etophen 110; Eumulgin 285; Hetoxide NP-10; Hostapai N-100; Hyoniz NP. 100; Hyonic PE-100; Iconol NP-10; Igenal® CO-660; Igenal® CO-710; Lutensal® AP 10; Makoo@ 10; Marlophen@ 810N; Naxonic NL 100; Nikkol NP-10; Poly-Tergent® B-315; Polysteph F-4; Prox-onic NP-010; Renex® 690; Rewepsite HV 10; Rexol 25/10; Sallig N 10 100; Serdox NNP 10; Simulsol 1030 NP; Siponic® NP-10 (see Igepal® CO-660); Sur-fonic® N-95; Surfanic® N-100; Surfanic® N-102: Sympanisia NP 10: Sympaon D; T-Denk N-9.5; Terghol@ MP-10: Targhol@ NPX: Teria N10: Trycol@ 6974; Wilcomst NP-100

Tradenames consolning: Surfanic@ HDL-1

Nonexyael-11 (CIFA)

CAS 9016-45-9 (generic); 26027-38-3 (generic); 37205-87-1 (generic)

Synonymu: PEO-11 nonyl phenyl ether, POE (11) monyl phonyl other

Tradenames: Alkasinf® NP-11; Arkopal N110; Cameron® N-11; Desonic® 11N; Hostapul N-110; Hyonic NP-110; Igapal@FN-11 (formerly Texnice PN-11); Macol@ NP-11; Makon@ 11; Newtronya 656; Norfox & NP-11; Numbi 656; Poly-Torgoni B. 350; Remcopal PONF; Rozol 25/11; Sellig N 11 100; Sendox NNP 11: T-Del® N-10.5; Teric NII; Triton® N-111; Trycol® 6965; Trycol® NP-11

Manaxynes-12 (CTFA) CAS 9816-85-9 (generic); 26027-38-3 (generic); 37205-87-1 (generic)

Synonymu: PEG-12 nonyl phenyl eiher, POE (12) nonyl phenyl eiher; PEG 600 nonyl phenyl eiher

Tradenomes: Adjusti NP12; Alkasuif NP-12; Carsonon® N-12; Dehydrophen PNP 12; Desonic@12N; Emulgator U12; Ethylan@DP; Etophen 112; Havide NP-12; Hyonic NP-120; Icobol NP-12; Igepato CO-720; Maccio NP-12; Igepato CO-720; Maccio NP-12; Makon 12; Mariophen 812N; Nissan Nonion NS-212; Polysieps F-5; Ramcepsi 3712; Renex® 682; Scilig N 12 100; Serdox NNP 12; Sermul EN 229; Surfonic® N-120; Synpercoic NP12; T-Det@ N-12; Teric N12; Trycol@ 6953

Nonexynol-13 (CTFA) CAS 9016-45-9 (generic); 26027-38-3 (generic); 37205-87-1 (generic)

Synonymu: PEG-13 nonyl phenyl ether; POE (13) nonyi phenyi ciher

Tradenames: Arkopal N130; Desonic@ 13N; Hostapal N-130; Remopal 3515; Renex®679; Serdox NNP 13; Siponic@ NP-13 (see Igopal@ CO-720); Surfonic N-130; Synperonic NP13; Syntopen E; Tergitol® NP-13; Teric N13;